UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,157	09/11/2003	Howard Andrew Gutowitz	2003,001/TS	2156

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EXAMINER
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ART UNIT	PAPER NUMBER
2182	

DATE MAILED: 11/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _16 August 2006_.

2a)☒ This action is **FINAL.**   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under _Ex parte Quayle_, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-20_ is/are pending in the application.

    4a) Of the above claim(s) _2,4-6,12,13 and 20_ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1,3,7-11 and 14-19_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _26 April 2006_ is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

Drawings

1.   The drawings are objected to under 37 CFR 1.83(a). Amended FIG. 1 was submitted on April 26, 2006 and contained new matter in elements 101 and 103.

Specification

2.   The amendment filed April 26, 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

--and optionally non-conversion symbols-- **was added to box 100 of FIG. 1**.

"b) another keystroke in the subsequence i) generates a symbol-input-end symbol which applies to the given pre-conversion symbol, and ii) does not additionally display any pre-conversion symbols which follow the given pre-conversion symbol in any sequence of pre-conversion symbols which correspond to a post-conversion symbol" **was replaced with** -- b) subsequent keystrokes in the subsequence i) generates a symbol-input-end symbol which applies to an immediately previous pre-conversion symbol, and ii) additionally causes display of a further printable symbol which is a pre-conversion symbol or a non-conversion symbol-- **in box 103 of FIG.1**.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

3.   The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4.   Claims 1, 3, 7-11, 14-19 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 recites "said plurality of printable symbols comprising...optionally a plurality of non-conversion symbols", and "subsequent keystrokes in said subsequence characterized in that each of said subsequent keystrokes generates one of said symbol-input-end symbols, where said generated symbol-input-end symbol applies to an immediately previously displayed printable symbol to cause input of said immediately previously displayed printable symbol and where each of said subsequent keystrokes additionally causes display of a further printable symbol, said further printable symbol being either a pre-conversion symbol or a non-conversion symbol...". Claim 16 recites limitations similar to those recited in claim 1.

The specification discloses printable non-conversion symbols being used in the trigger sequences for Japanese and Korean - **but not as an option**. The specification does not appear to disclose printable non-conversion symbols being used in the trigger sequences for Chinese.

5.   Claims 1, 3 include a continuation class of trigger sequences and a non-continuation class of trigger sequences. It appears that the disclosure only supports a first class of trigger sequences and a second class of trigger sequences.

6.   Applicant needs to specifically point out where the specification provides support for the above limitations in order to overcome the rejection.

7.   The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

8.   Claims 1, 3, 7-11, 14-19 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

9.   Claim 1 recites "said plurality of printable symbols comprising…and optionally a plurality of non-conversion symbols". Claim 16 recites a limitation similar to that recited in claim 1. It is not clear what the recitation encompasses. As the disclosure does not teach the plurality of non-conversion symbols as an option, it is not clear whether the printable symbols comprise non-conversion symbols. Furthermore, it is not even clear whether the non-conversion symbols are part of the printable symbols.

10.   Claim 3 recites "a non-continuation said cHiragana" in lines 12-13, "a continuation said cHiragana" in line 22, and "continuation said cHiragana" in line 26. Such recitations are incomprehensible.

11.   The rejections that follows are based on the examiner' best interpretation of the claims.

Claim Rejections - 35 USC § 102

12.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

13.   Claims 1, 7-11, 14, 16, 18-19 rejected under 35 U.S.C. 102(e) as being

anticipated by Ouyang (USP 6,765,504).

14.   <u>As per claim 1</u>, Ouyang teaches a text-entry system [FIG. 1] based on trigger

sequences [e.g. 946641, FIG. 7] comprising

1) a plurality of keys [FIG. 4],

2) a plurality of printable symbols, 3) said plurality of printable symbols

comprising a plurality of pre-conversion symbols [symbols in INCOMPLETE REGION,

FIG. 7] and a plurality of post-conversion symbols [symbols in CONVERTED REGION,

FIG. 7], each of said post-conversion symbols set in a correspondence to a sequence of

said pre-conversion symbols [pre-conversion symbol zhong corresponding to the first

symbol in the CONVERTED REGION of FIG. 7],

4) a plurality of symbol-input-end symbols [for triggering conversion],

5) a display to display printable symbols [FIG. 7],

6) a first mechanism to display said pre-conversion symbols in response to

keystrokes [pre-conversion symbols being displayed in INCOMPLETE REGION

corresponding to inputted keystrokes, FIG. 7], and

      7) a second mechanism to recognize trigger sequences and thereby trigger

conversion of a plurality of said pre-conversion symbols displayed on said display by

said first mechanism to a plurality of said post-conversion symbols [946641 triggering

conversion of pre-conversion symbol zhong to a post-conversion symbol in

CONVERTED REGION, FIG. 7],

      a plurality of said trigger sequences contained in a continuation class of trigger

sequences [trigger sequences comprising a continuation of keystrokes], elements of

said continuation class of trigger sequence characterized in that they comprise a

subsequence of said keystrokes, said subsequence comprising two of said keystrokes

[4 and 1 in the sequence 946641] such that a first of said keystrokes in said

subsequence causes said first mechanism to display one of said pre-conversion

symbols [94664 of the sequence 946641 causes display of pre-conversion symbols

xiong and zhong, FIG. 7], and subsequent keystrokes [i.e. the second of the two

keystrokes - when only two of the keystrokes are considered] in said subsequence

characterized in that each of said subsequent keystrokes [i.e. the second keystroke

when only two keystrokes are considered] generates one of said symbol-in-put-end

symbols, where said generated symbol-in-put-end symbols applies to an immediately

previously displayed printable symbol to cause input of said immediately previously

displayed printable symbol [1 in the sequence 946641 triggering the conversion of pre-

conversion symbol zhong to a corresponding post-conversion symbol in the

CONVERTED REGION, FIG. 7 - hence inherently generating a symbol-input-end

symbol], and

where each of said subsequent keystrokes [i.e. the second keystroke]

additionally causes display of a further printable symbol [1 in 946641 causes display of

g h i - upon entering a 4 following 946641], said further printable symbol being a pre-

conversion symbol [g h i are pre-conversion symbols], where a last of said subsequent

keystrokes [i.e. the second keystroke] completes said trigger sequence, and thereby

triggers conversions.

Note that the plurality of non-conversion symbols are optional, and are therefore

not required.

15.   As per claims 7-11, 14, 18-19, Ouyang teaches a third mechanism to convert

said pre-conversion symbols to said post-conversion symbols [600, FIG. 1], the third

mechanism is physically remote from said first mechanism [600 is physically remote

from 200, 400 - FIG. 1], the third mechanism performs said conversion based on a

context comprising other input symbols [FIG. 7];

a predictive text mechanism operating to select said pre-conversion symbols for

display based on a context comprising other input symbols [FIG. 7];

at least one Next key for incrementing symbols in an ordered list containing more

than one element [e.g. 1 in sequence 946641];

the pre-conversion symbols comprising a word-based predictive mechanism [e.g.

xiong and zhong - FIG. 7] and the text-entry system comprising a word-completion

mechanism [400, FIG. 1].

16.   As per claim 16, Ouyang teaches a method for constructing trigger sequences for

a text-entry system comprising the steps of

1) selecting a set of pre-conversion [pinyin symbol] and post-conversion symbols [Chinese characters],

2) selecting a text-entry mechanism which enters text in response to keystrokes [FIG. 4; col. 8, ll. 6-13],

3) determining a set of keystroke sequences which corresponds to a set of possible texts to be entered using said text-entry system [e.g. sequence 946641 corresponds to zhong - FIG. 7],

4) for each pre-conversion symbol generated by each of said keystroke sequences in said set of keystroke sequences, finding a subsequence of said keystrokes such that said subsequence comprises two of said keystrokes such that a first of said keystrokes in said subsequence causes display of said each pre-conversion symbol, and subsequent keystrokes in said subsequence characterized in that each of said subsequent keystrokes generates a symbol-input- end symbol, where said generated symbol-input-end symbol applies to an immediately previously displayed printable symbol to cause input of said immediately previously displayed printable symbol and where each of said subsequent keystrokes additionally causes display of a further printable symbol, said further printable symbol being a pre-conversion symbol, where a last of said subsequent keystrokes completes said trigger sequence, and thereby triggers conversion [see rejection of claim 1 above], and

5) returning to said step of selecting said set of said printable symbols if said step of finding said subsequence fails to produce satisfactory subsequences [in the event

that there is no corresponding or possible pinyin symbol combination present [S306,

FIG. 2], return to the first step to try another sequence].

Response to Arguments

17.   Applicant's arguments with respect to the rejected claims have been considered

but are moot in view of the new ground(s) of rejection.

Conclusion

18.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

        A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

19.   Any inquiry concerning this communication or earlier communications from the

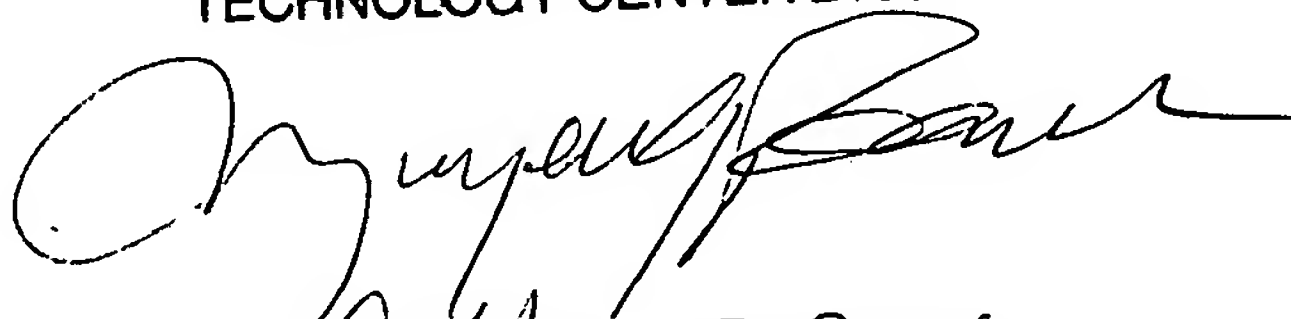examiner should be directed to Tanh Q. Nguyen whose telephone number is 571-272-

4154. The examiner can normally be reached on M-F 9:30AM-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh can be reached on 571-272-4147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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October 27, 2006

TQN
October 27, 2006